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semi-incandescent mass; that the belts, the great red spot and other dark markings, are composed of matter of lower temperature. The egg-shaped, polar white spots are openings in the semi-fluid crust. This hypothesis would account for the slow and gradual changes occurring on the surface, which does not seem reasonable on the simple atmospheric theory.

Over the liquid surface is an atmosphere in which is formed the equatorial white spots which are of the nature of cloud.

In conclusion the director expresses what we can well believe to be his sincere regrets at the loss of the valuable services of Mr. S. W. Burnham, who has accepted a position in the Washburne Observatory, at Madison, Wis. During the past year Mr. Burnham, as heretofore, had the use of the great equatorial for double-star observations, and reported the discovery since May, 1880, of about fifty new double-stars, all of which were measured at least three times. About one-half of the number are close double, not exceeding 1".5 in distance. Among the more prominent stars are 9 persei, 5 persei, κ pegasi, γ foracis and 60 arietis. He also made about 600 measures on previously-known double-stars.

DR. COPELAND and Mr. Dreyer have been compelled to change the title of *Urania*, as it appears that name was appropriated by some *astrological* serial. In future, then, *Urania*, the astronomical serial, will bear the title *Copernicus*.

It is rumored that Prof. Huxley will be asked to allow his name to be entered for the Linacre professor of physiology vacant by the death of Prof. Rolleston.

COMET (δ) 1881.

The following observations of the Great Comet of 1881, made at Australian Observatories, have been kindly furnished for publication by Professor Wm. Harkness, U. S. N., to whom they were communicated by Mr. Todd, Superintendent of the Adelaide Observatory.

DATE.	R. A.			Dec. South.	Station.	* Of Comparison.
	h. m.	h. m.	s.	° ' "		
May 22, —	—	4	58	—	Windsor...	B. A. C. 1573
" 23, —	—	4	59	—	Melbourne...	Lacaille 1685
" 25, —	—	4	59	46.	Sydney...	-----
" 26, 6	17	5	0	16.62	Melbourne...	-----
" 27, 18	10	5	1	3.07	Windsor...	Lacaille 1785
" 28, 8	0	5	1	25.	Adelaide...	Columba
" 28, 18	0	5	1	35.67	Melbourne...	B. A. C. 1564
" 29, 5	39	5	1	48.52	"	" 1615
" 29, 7	20	5	1	51.7	Adelaide...	" 1564
" 30, 7	33	5	2	21.8	"	" 1615
" 30, 7	33	5	2	26.12	"	-----
" 31, 7	8	5	2	56.30	"	-----
" 31, 18	23	5	3	12.38	Melbourne...	-----
June 1, 5	25	5	3	26.26	"	-----
" 1, 6	48	5	3	32.8	Adelaide...	Washington 2173
" 3, 6	4	5	4	37.6	Melbourne...	-----
" 5, 6	10	—	—	24	Adelaide...	-----
" 12, 6	0	5	11	38.4	"	Rigel
" 12, 18	0	5	12	13.4	"	γ . Orionis

	° ' "			h. m. s.	
Windsor....Lat.	33	36	29	S.	Long.
Sydney....	33	51	41	"	10 3 21.8 E. of Greenwich.
Melbourne....	37	49	53	"	10 4 50.8 "
Adelaide....	34	55	34	"	9 39 54.8 "
					9 14 21.3 "

WASHINGTON, Aug. 9, 1881.

W. C. W.

METEOROLOGICAL REPORT FOR NEW YORK CITY FOR THE WEEK ENDING AUG. 6, 1881.

Latitude 40° 45' 58" N.; Longitude 73° 57' 58" W.; height of instruments above the ground, 53 feet; above the sea, 97 feet; by self-recording instruments.

BAROMETER.						THERMOMETERS.									
JULY AND AUGUST.	MEAN FOR THE DAY.		MAXIMUM.		MINIMUM.		MEAN.		MAXIMUM.			MINIMUM.			MAXI'M
	Reduced to Freezing.	Reduced to Freezing.	Time.	Reduced to Freezing.	Time.	Dry Bulb.	Wet Bulb.	Dry Bulb.	Time.	Wet Bulb.	Time.	Dry Bulb.	Time.	Wet Bulb.	Time.
Sunday, 31--	30.094	30.164	9 a. m.	30.044	9 p. m.	67.6	66.3	73	4 p. m.	69	12 p. m.	63	1 a. m.	63	1 a. m.
Monday, 1--	30.060	30.096	9 a. m.	30.036	9 p. m.	74.3	70.3	80	3 p. m.	73	3 p. m.	68	5 a. m.	67	5 a. m.
Tuesday, 2--	30.014	30.058	9 a. m.	29.966	6 p. m.	75.0	71.0	81	4 p. m.	74	5 p. m.	70	2 a. m.	69	2 a. m.
Wednesday, 3--	29.975	30.006	7 a. m.	29.942	4 p. m.	76.6	71.0	85	4 p. m.	75	7 p. m.	67	6 a. m.	67	6 a. m.
Thursday, 4--	29.970	29.996	9 a. m.	29.940	6 p. m.	81.7	74.0	91	4 p. m.	79	4 p. m.	70	5 a. m.	69	5 a. m.
Friday, 5--	29.930	29.976	9 a. m.	29.898	6 p. m.	82.3	75.6	91	3 p. m.	79	2 p. m.	75	5 a. m.	73	5 a. m.
Saturday, 6--	29.864	29.914	7 a. m.	29.804	7 p. m.	83.0	76.3	91	2 p. m.	80	2 p. m.	78	12 p. m.	73	12 p. m.

Mean for the week..... 29.986 inches.
Maximum for the week at 9 a. m., July 31st..... 30.164 "
Minimum " at 7 p. m., Aug. 6th..... 29.804 "
Range..... .360 "

Dry. Wet.
Mean for the week..... 77.2 degrees..... 72.0 degrees.
Maximum for the week, at 2 p. m. 6th 91. " at 2 p. m. 6th, 80. "
Minimum " at 1 a. m. 31st 63. " at 1 a. m. 31st, 63. "
Range " " 28. " 17. "

WIND.										HYGROMETER.									CLOUDS.						RAIN AND SNOW.					OZONE.
JULY AND AUGUST.		DIRECTION.			VELOCITY IN MILES.	FORCE IN LBS. PER SQ. FEET.		FORCE OF VAPOR.			RELATIVE HUMIDITY.			CLEAR, OVERCAST,			DEPTH OF RAIN AND SNOW IN INCHES.													
																				0 TO										
		7 a. m.	2 p. m.	9 p. m.	Distance for the Day.	Max.	Time.	7 a. m.	2 p. m.	9 p. m.	7 a. m.	2 p. m.	9 p. m.	7 a. m.	2 p. m.	9 p. m.	7 a. m.	2 p. m.	9 p. m.	Time of Begin- ing.	Time of End- ing.	Dura- tion. h. m.	Amount of water							
Sunday,	31.	n. e.	e.	s. s. e.	132	1½	4.00 am	.596	.635	.658	100	90	90	10	9 cu.	10	1.30 pm	4 pm.	2.30	.03	0									
Monday,	1.	w. s. w.	s.	s.	119	2	4.00 pm	.644	.717	.706	85	70	90	10	2 cir. cu. s	3 cu.	-----	-----	-----	-----	0									
Tuesday,	2.	s. s. e.	s.	s.	118	2½	3.30 pm	.706	.717	.693	90	70	85	10	3 cir. cu. s	8 cu.	-----	-----	-----	-----	0									
Wednesday,	3.	n. w.	n. n. e.	s. w.	61	¾	2.00 pm	.648	.663	.744	95	57	77	3 cir. cu.	1 cir.	0	-----	-----	-----	-----	0									
Thursday,	4.	n. n. w.	n. w.	s. s. w.	57	¾	5.00 pm	.641	.705	.816	76	56	74	0	3 cir. cu.	0	-----	-----	-----	-----	1									
Friday,	5.	w. n. w.	s. s. e.	s. w.	82	¾	3.40 pm	.757	.855	.787	82	62	74	2 cir.	0	0	9.15 pm	10 am.	0.45	.07	0									
Saturday,	6.	s. s. w.	s. s. w.	s. w.	176	5¼	2.20 pm	.772	.874	.814	78	60	82	2 cir. cu.	1 c. s.	6 cu.	-----	-----	-----	-----	3									

Distance traveled during the week..... 745 miles.
Maximum force..... 5 1/4 lbs.

Total amount of water for the week..... .10 inch.

DANIEL DRAPER, Ph. D.

Director Meteorological Observatory of the Department of Public Parks, New York.